

Regional HIV/AIDS Epidemiologic Profile of City of Boston, Massachusetts: FY 2008

Table 1. Total number of people reported with HIV infection or AIDS¹ by mortality status on December 31, 2007 City of Boston, Massachusetts

| | N | % |
|--|--------------|-------------|
| People Living with HIV/AIDS | 4,992 | 56% |
| People Reported with HIV or AIDS who are Deceased | 3,882 | 44% |
| Total Number of People Reported with HIV Infection or AIDS | 8,874 | 100% |

¹ Does not include individuals diagnosed with HIV infection (non-AIDS) who died prior to January 1, 1999 or who were not in care on January 1, 1999.

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/08

Table 2. Average annual rate of HIV infection diagnosis from 2004 to 2006 and rate of people living with HIV/AIDS on 12/31/07¹: City of Boston, Massachusetts

| Average annual HIV diagnosis rate from 2004–2006 | Average Rate per 100,000 | Average Number of HIV Diagnoses |
|---|---------------------------------|--|
| City of Boston, MA | 42 per 100,000 | 246 |
| Massachusetts Total | 13 per 100,000 | 857 |
| Rate of people living with HIV/AIDS on 12/31/07 | Rate per 100,000 | Number of People Living with HIV/AIDS |
| City of Boston, MA | 847 per 100,000 | 4,992 |
| Massachusetts Total | 267 per 100,000 | 16,977 |

¹ Population sizes for rate calculations are based on year 2000 population estimates from the MDPH Center for Health Information, Statistics, Research and Evaluation

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/08

Table 3. People living with HIV/AIDS¹, deaths among people reported with HIV/AIDS, and newly diagnosed HIV infections by year²: 1999–2006, City of Boston, Massachusetts

| Year | HIV/AIDS Prevalence | Deaths among those with HIV/AIDS | Diagnosis of HIV Infection |
|-------------|----------------------------|---|-----------------------------------|
| 1999 | 3,577 | 100 | 335 |
| 2000 | 3,823 | 96 | 342 |
| 2001 | 4,009 | 110 | 296 |
| 2002 | 4,215 | 111 | 317 |
| 2003 | 4,408 | 97 | 290 |
| 2004 | 4,606 | 79 | 277 |
| 2005 | 4,794 | 78 | 266 |
| 2006 | 4,914 | 74 | 194 |

¹ Number of People living with HIV/AIDS on 12/31 of each year

² Reflects year of diagnosis for HIV infection among all individuals reported with HIV infection, with or without an AIDS diagnosis
Data source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/08

Table 4. People diagnosed with HIV infection from 2004–2006¹ and people living with HIV/AIDS on December 31, 2007 by gender, place of birth, race/ethnicity, exposure mode, age at HIV infection diagnosis and current age: City of Boston, Massachusetts

| HIV Infection Diagnoses | | | PLWH/A | |
|--|--------------|-------------|----------------------|-------------|
| Gender: | N | % | N | % |
| Male | 584 | 79% | 3,821 | 77% |
| Female | 153 | 21% | 1,171 | 23% |
| Place of Birth: | N | % | N | % |
| US | 504 | 68% | 3,572 | 72% |
| Puerto Rico/US Dependency ² | 32 | 4% | 321 | 6% |
| Non-US | 201 | 27% | 1,099 | 22% |
| Race/Ethnicity: | N | % | N | % |
| White (non-Hispanic) | 277 | 38% | 2,047 | 41% |
| Black (non-Hispanic) | 302 | 41% | 1,979 | 40% |
| Hispanic | 146 | 20% | 868 | 17% |
| Other/Undetermined ³ | 12 | 2% | 98 | 2% |
| Exposure Mode: | N | % | N | % |
| Male-to-male sex (MSM) | 373 | 51% | 2,302 | 46% |
| Injection Drug Use (IDU) | 60 | 8% | 844 | 17% |
| MSM/IDU | 13 | 2% | 163 | 3% |
| Heterosexual Sex | 50 | 7% | 545 | 11% |
| Other | 6 | 1% | 95 | 2% |
| Total Undetermined | 235 | 32% | 1,043 | 21% |
| • Presumed Heterosexual Sex ⁴ | 144 | 20% | 744 | 15% |
| • Undetermined ⁵ | 91 | 12% | 299 | 6% |
| Age: | N | % | N | % |
| | At Diagnosis | | On December 31, 2007 | |
| Under 13 | 5 | 1% | 16 | <1% |
| 13 to 19 | 12 | 2% | 42 | 1% |
| 20 to 24 | 57 | 8% | 67 | 1% |
| 25 to 29 | 86 | 12% | 153 | 3% |
| 30 to 34 | 110 | 15% | 309 | 6% |
| 35 to 39 | 137 | 19% | 591 | 12% |
| 40 to 44 | 147 | 20% | 1,048 | 21% |
| 45 to 49 | 91 | 12% | 1,115 | 22% |
| 50 to 54 | 43 | 6% | 850 | 17% |
| 55 to 59 | 23 | 3% | 380 | 8% |
| 60+ | 26 | 4% | 421 | 8% |
| Total | 737 | 100% | 4,992 | 100% |

¹ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS

² Ninety-five percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, and 4% were born in an unknown dependency

³ Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity

⁴ Heterosexual sex with partners with unknown risk and HIV status

⁵ Includes those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up
Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

Table 5. People living with HIV/AIDS on December 31, 2007 by gender and race/ethnicity: City of Boston, Massachusetts

| Race/Ethnicity: | Male | | Female | |
|---------------------------------|--------------|-------------|--------------|-------------|
| | N | % | N | % |
| White Non-Hispanic | 1,890 | 49% | 157 | 13% |
| Black Non-Hispanic | 1,190 | 31% | 789 | 67% |
| Hispanic | 668 | 17% | 200 | 17% |
| Other/Undetermined ¹ | 73 | 2% | 25 | 2% |
| Total | 3,821 | 100% | 1,171 | 100% |

¹ Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

Table 6. People living with HIV/AIDS on December 31, 2007 by gender and exposure mode: City of Boston, Massachusetts

| Exposure Mode: | Male | | Female | |
|--|--------------|-------------|--------------|-------------|
| | N | % | N | % |
| Male-to-male sex (MSM) | 2,302 | 60% | N/A | N/A |
| Injection drug use (IDU) | 585 | 15% | 259 | 22% |
| MSM/IDU | 163 | 4% | N/A | N/A |
| Heterosexual sex | 178 | 5% | 367 | 31% |
| Other | 49 | 1% | 46 | 4% |
| Total Undetermined | 544 | 14% | 499 | 43% |
| • Presumed heterosexual sex ¹ | 351 | 9% | 393 | 34% |
| • Undetermined ² | 193 | 5% | 106 | 9% |
| Total | 3,821 | 100% | 1,171 | 100% |

¹ Heterosexual sex with partners with unknown risk and HIV status

² Includes those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up; N/A=Not Applicable

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

Table 7. People diagnosed with HIV infection by gender and year of diagnosis: City of Boston, Massachusetts, before 1999, 1999–2006¹

| | Male | | Female | | Total |
|-------------------|-------|-----|--------|-----|--------------|
| | N | % | N | % | |
| < 1999 | 5,281 | 82% | 1,195 | 18% | 6,476 |
| 1999 | 228 | 68% | 107 | 32% | 335 |
| 2000 | 249 | 73% | 93 | 27% | 342 |
| 2001 | 225 | 76% | 71 | 24% | 296 |
| 2002 | 235 | 74% | 82 | 26% | 317 |
| 2003 | 206 | 71% | 84 | 29% | 290 |
| 2004 | 212 | 77% | 65 | 23% | 277 |
| 2005 | 205 | 77% | 61 | 23% | 266 |
| 2006 ² | 167 | 86% | 27 | 14% | 194 |

¹ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

² 2006 data are preliminary

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

Table 8. People diagnosed with HIV infection by race/ethnicity and year of diagnosis: City of Boston, Massachusetts, before 1999, 1999–2006¹

| | White NH | | Black NH | | Hispanic | | Other/ Undetermined ² | | Total |
|-------------------|----------|-----|----------|-----|----------|-----|-------------------------------------|----|--------------|
| | N | % | N | % | N | % | N | % | |
| < 1999 | 3,191 | 49% | 2408 | 37% | 820 | 13% | 57 | 1% | 6,476 |
| 1999 | 116 | 35% | 150 | 45% | 56 | 17% | 13 | 4% | 335 |
| 2000 | 108 | 32% | 164 | 48% | 58 | 17% | 12 | 4% | 342 |
| 2001 | 112 | 38% | 135 | 46% | 40 | 14% | 9 | 3% | 296 |
| 2002 | 117 | 37% | 144 | 45% | 47 | 15% | 9 | 3% | 317 |
| 2003 | 104 | 36% | 120 | 41% | 61 | 21% | 5 | 2% | 290 |
| 2004 | 101 | 36% | 124 | 45% | 46 | 17% | 6 | 2% | 277 |
| 2005 | 86 | 32% | 114 | 43% | 62 | 23% | 4 | 2% | 266 |
| 2006 ³ | 90 | 46% | 64 | 33% | 38 | 20% | 2 | 1% | 194 |

¹ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

² Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity

³ 2006 data are preliminary

NH = Non-Hispanic

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

Table 9. People diagnosed with HIV infection by place of birth and year of diagnosis: City of Boston, Massachusetts, before 1999, 1999–2006¹

| | US | | Puerto Rico/ US Dependency ² | | Non-US | | Total |
|-------------------|-------|-----|--|----|--------|-----|--------------|
| | N | % | N | % | N | % | |
| < 1999 | 5,156 | 80% | 445 | 7% | 875 | 14% | 6,476 |
| 1999 | 235 | 70% | 19 | 6% | 81 | 24% | 335 |
| 2000 | 217 | 63% | 22 | 6% | 103 | 30% | 342 |
| 2001 | 208 | 70% | 12 | 4% | 76 | 26% | 296 |
| 2002 | 209 | 66% | 12 | 4% | 96 | 30% | 317 |
| 2003 | 194 | 67% | 15 | 5% | 81 | 28% | 290 |
| 2004 | 195 | 70% | 9 | 3% | 73 | 26% | 277 |
| 2005 | 177 | 67% | 15 | 6% | 74 | 28% | 266 |
| 2006 ³ | 132 | 68% | 8 | 4% | 54 | 28% | 194 |

¹ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

² Ninety-five percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, and 4% were born in an unknown dependency

³ 2006 data are preliminary

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

Table 10. People diagnosed with HIV infection by exposure mode and year of diagnosis: City of Boston, Massachusetts, before 1999, 1999–2006¹

| | MSM | | IDU | | MSM/ IDU | | HTSX | | Other | | Pres. HTSX ² | | Undeter- mined ³ | | Total |
|-------------------|-------|-----|------|-----|-------------|----|------|-----|-------|----|----------------------------|-----|--------------------------------|-----|--------------|
| | N | % | N | % | N | % | N | % | N | % | N | % | N | % | N |
| <1999 | 3,159 | 49% | 1660 | 26% | 281 | 4% | 538 | 8% | 162 | 3% | 473 | 7% | 203 | 3% | 6,476 |
| 1999 | 125 | 37% | 67 | 20% | 9 | 3% | 49 | 15% | 6 | 2% | 64 | 19% | 15 | 4% | 335 |
| 2000 | 126 | 37% | 49 | 14% | 5 | 1% | 47 | 14% | 2 | 1% | 87 | 25% | 26 | 8% | 342 |
| 2001 | 125 | 42% | 41 | 14% | 6 | 2% | 32 | 11% | 1 | 0% | 64 | 22% | 27 | 9% | 296 |
| 2002 | 133 | 42% | 40 | 13% | 11 | 3% | 50 | 16% | 3 | 1% | 57 | 18% | 23 | 7% | 317 |
| 2003 | 119 | 41% | 33 | 11% | 5 | 2% | 30 | 10% | 3 | 1% | 63 | 22% | 37 | 13% | 290 |
| 2004 | 123 | 44% | 26 | 9% | 6 | 2% | 18 | 6% | 3 | 1% | 62 | 22% | 39 | 14% | 277 |
| 2005 | 132 | 50% | 25 | 9% | 4 | 2% | 21 | 8% | 2 | 1% | 48 | 18% | 34 | 13% | 266 |
| 2006 ⁴ | 118 | 61% | 9 | 5% | 3 | 2% | 11 | 6% | 1 | 1% | 34 | 18% | 18 | 9% | 194 |

¹ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

² Heterosexual sex with partners with unknown risk and HIV status

³ Includes those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up

⁴ 2006 data are preliminary

MSM = Male-to-Male Sex; IDU = Injection Drug Use; MSM/IDU = Male-to-Male Sex and Injection Drug Use; HTSX = Heterosexual Sex; Pres. HTSX = Presumed Heterosexual Sex

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

Table 11. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by year of diagnosis: City of Boston, Massachusetts, 1999–2006¹

| | HIV and AIDS diagnosed within 2 months | All HIV infection diagnoses | % diagnosed with HIV and AIDS within 2 months |
|-------|--|-----------------------------------|--|
| Year: | N | N | % |
| 1999 | 100 | 335 | 30% |
| 2000 | 87 | 342 | 25% |
| 2001 | 61 | 296 | 21% |
| 2002 | 74 | 317 | 23% |
| 2003 | 79 | 290 | 27% |
| 2004 | 63 | 277 | 23% |
| 2005 | 61 | 266 | 23% |
| 2006 | 53 | 194 | 27% |

¹ Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS
Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/08

Table 12. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by gender, race/ethnicity, and place of birth: City of Boston, Massachusetts, 2004–2006¹

| | HIV and AIDS diagnosed within 2 months | All HIV infection diagnoses | % diagnosed with HIV and AIDS within 2 months |
|--|--|--------------------------------|--|
| Gender: | N | N | % |
| Male | 138 | 584 | 24% |
| Female | 39 | 153 | 25% |
| Race/Ethnicity: | N | N | % |
| White (non-Hispanic) | 51 | 277 | 18% |
| Black (non-Hispanic) | 89 | 302 | 29% |
| Hispanic | 36 | 146 | 25% |
| Other/Undetermined ² | 1 | 12 | 8% |
| Place of Birth: | N | N | % |
| US | 106 | 504 | 21% |
| Puerto Rico/US Dependencies ³ | 8 | 32 | 25% |
| Non-US | 63 | 201 | 31% |
| Total | 177 | 737 | 24% |

¹ Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS

² Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity

³ Ninety-five percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, and 4% were born in an unknown dependency

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/08